Patent Claims

1. Pressure pickup for the registering of a process pressure, comprising:

a pressure measuring cell and a platform having a first surface and a second surface, wherein, through the platform, between the first surface and the second surface, a pressure canal extends, through which the pressure measuring cell is loadable with the process pressure by means of a transmitting medium, wherein the pressure canal has a flame penetration barrier, characterized in that

the pressure canal includes a first section and a second section, wherein the flame penetration barrier is arranged in the first section,

and wherein the second section has a bore, in which a fill-body is arranged, wherein the second section does not satisfy the requirements for a flame penetration barrier.

2. Pressure pickup for the registering of a pressure difference between a first process pressure and a second process pressure, comprising:

a pressure-difference measuring cell, a platform, through which two pressure canals extend, via which the pressure-difference measuring cell is loadable with the first and second process pressures, wherein at least one of the two pressure canals has a flame penetration barrier, characterized in that

at least one pressure canal includes a first section and a second section, wherein the flame penetration barrier is arranged in the first section, and wherein the second section has a bore, in which a fill-body is arranged, and

wherein the second section does not satisfy the requirements for a flame penetration barrier.

3. Pressure pickup as claimed in claim 1, wherein the first section has a bore, in which a fill-pin is arranged, wherein the remaining gap between the bore and the fill-pin satisfies the requirements for a flame penetration barrier.

4. Pressure pickup as claimed in claim 2, wherein the fill-pin is inserted into the first section as a separate part independently of the fill-body.

5. Pressure pickup as claimed in claim 2, wherein the fill-pin is formed as one piece with the fill-body.

6. Pressure pickup as claimed in claim 4, wherein the fill-pin has a lesser diameter than the fill-body.

7. Pressure pickup as claimed in one of the preceding claims, wherein the first section of the pressure canal is manufactured with smaller tolerances than the second section of the pressure canal.

8. Pressure pickup as claimed in one of the claims 2 to 6, wherein the fill-pin is manufactured with smaller tolerances than the fill-body.

9. Pressure pickup as claimed in claim 1, wherein the first section has a bore, whose diameter at given length satisfies the requirements for a flame penetration barrier.

10. Pressure pickup as claimed in claim 2, or a claim dependent therefrom, wherein each of the pressure canals has a flame penetration barrier as well as a first section and a second section, wherein, further, each flame

penetration barrier is arranged in the first section, and each second section has a bore, in which a fill-body is arranged.